Columbia River Salmon and Federal Columbia River Power System

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Columbia River Basin

Federal Columbia River Power System

- The FCRPS comprises 14 Federal multi-purpose projects
- Operated in a coordinated manner to provide flood control, navigation, power, recreation, irrigation, fish and wildlife, water quality, and water supply
- Corps operates and maintains 12 projects: 3 storage and 9 run-of-river
- Reclamation operates 2 storage projects
- BPA markets and transmits power generated at the FCRPS projects

Federal Partners

- **Bureau of Reclamation**
  - Operates Grand Coulee and Hungry Horse dams. These federal projects are a major source of power in the region and provide flood control, navigation, recreation, fish and wildlife, municipal and industrial water supply, and irrigation benefits.
- **Bonneville Power Administration**
  - An agency of the U.S. Department of Energy. It wholesales electric power produced at 31 federal dams (67 percent of its production) and non-hydropower facilities in the Columbia-Snake Basin. BPA sells about half the electric power consumed in the Pacific Northwest.
- **NOAA Fisheries Service**
  - Required by the ESA to assess whether federal actions will jeopardize the continued existence of listed species. It does this through a process of consultation with the action agencies for the FCRPS: BPA, the Corps and Reclamation. Consultation results in NOAA's issuing a biological opinion, also called a BiOp.

Columbia River Basin Fish Program

BLM

BIA

USDA FS

USBR

BPA

NOAA Fisheries

Federal Caucus

Corps

EPA

USFWS

Columbia Basin Fish & Wildlife Authority

Interest Groups

Environmental

American Rivers
Federation of Fly Fishers
Idaho Steelhead & Salmon Unlimited
Idaho Rivers United
Institute for Fishery Resources
National Wildlife Federation
Natural Resources Defense Council
Northwest Resource Information Center
Northwest Sportfishing Industry Assn
Oregon Natural Resources Council
Pacific Rivers Council
Save Our Wild Salmon
Sierra Club
Trout Unlimited

Industry

Columbia Snake River Irrigators Association
Direct Service Industries
Idaho Power Company
Northwest Irrigation Utilities
Northwest Power Pool Coordinating Pool
Northwest Public Power Association
Pacific Northwest Generating Cooperative
Pacific Northwest Utilities Conference Committee
Pacific Northwest Waterways Association
Public Power Council

Tribes

Columbia River Inter-Tribal Fish Commission

Burns Paiute
Coeur D'Alene
Salish and Kootenai Tribes
Yakama
Colville
Umatilla
Warm Springs
Kalispel
Kootenai
Nez Perce
Shoshone/Bannock
Shoshone-Pauite
Spokane

States

Idaho Dept of Fish & Game
Oregon Dept of Fish & Wildlife
Washington Dept of Fish & Wildlife
Montana Dept of Fish, Wldlfe & Parks

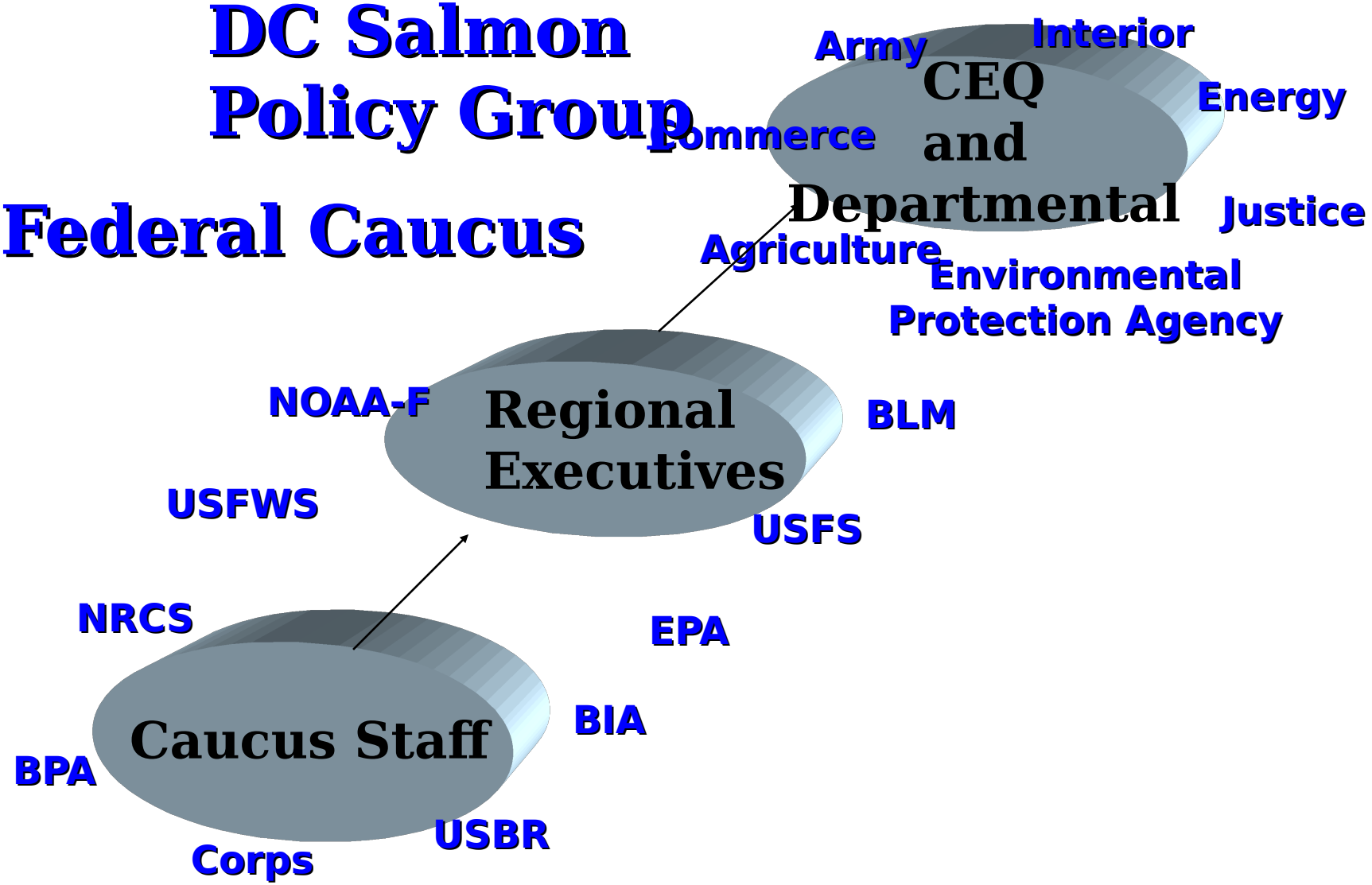
Idaho
Montana
Oregon
Washington

Northwest Power and

Independent Scientific Advisory Board
Independent Scientific Review Panel
Independent Economic Analysis Board

DC Salmon Policy Group

Federal Caucus



Columbia Basin Fish Accords

- **Signed Accords with**
  - Confederated Tribes of the Umatilla Indian Reservation
  - The Confederated Tribes of Warm Springs
  - Yakama Indian Nation
  - Confederated Tribes of the Colville Reservation
  - Columbia River Inter-Tribal Fish Commission
  - Shoshone-Bannock
  - Washington (Draft Stage)
  - Montana
  - Idaho

- **Costs over 10 years**
  - $900 million incurred by the Bonneville Power Administration
  - $50 million from the Corps of Engineers for Pacific lamprey

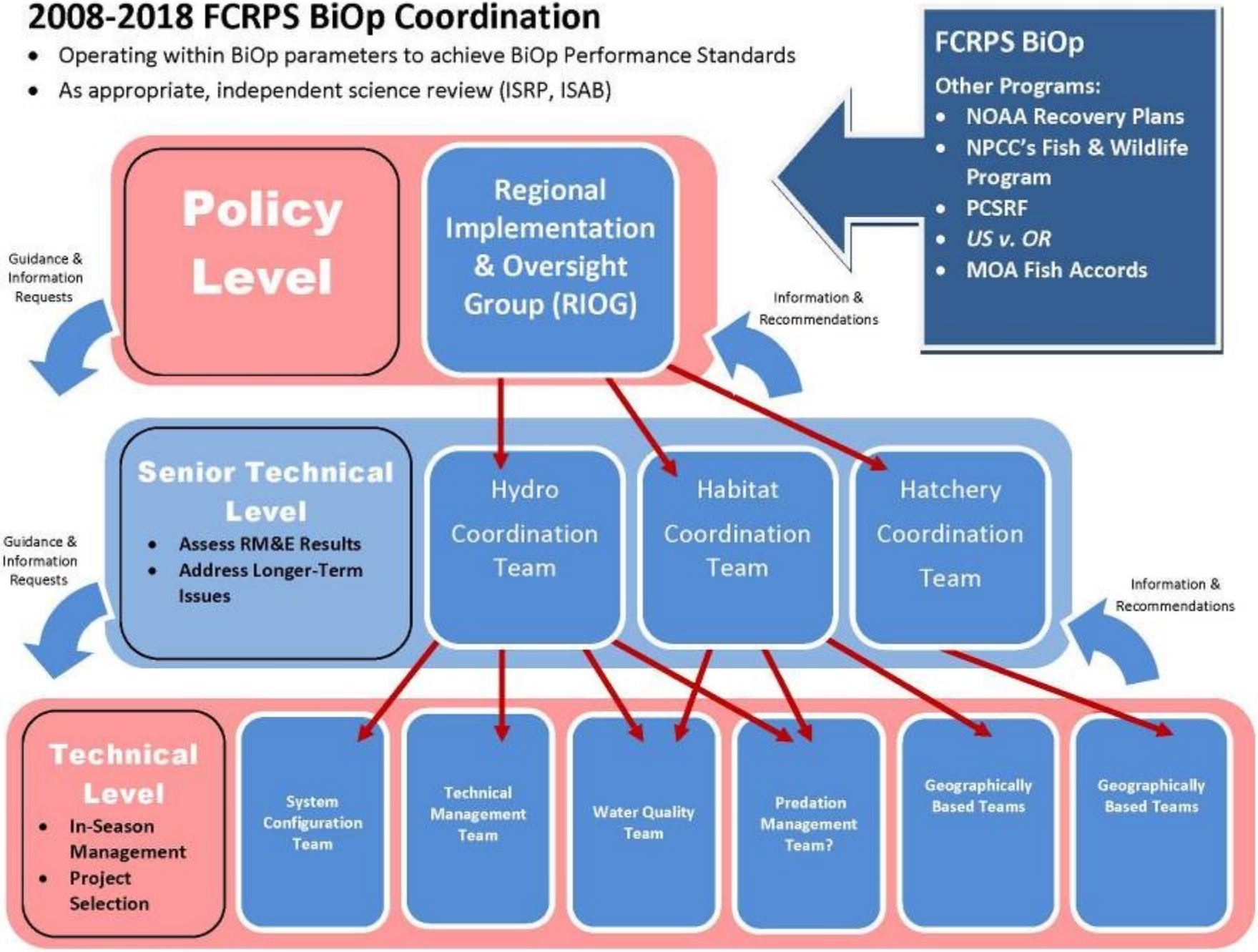
- **Significant Benefit**
  - Hundreds of “on the ground” habitat projects based on recovery plans with demonstrated biological benefits
  - New hatchery actions to promote recovery and regional fisheries, without impeding recovery of listed fish
  - Improved relationships through new partnerships

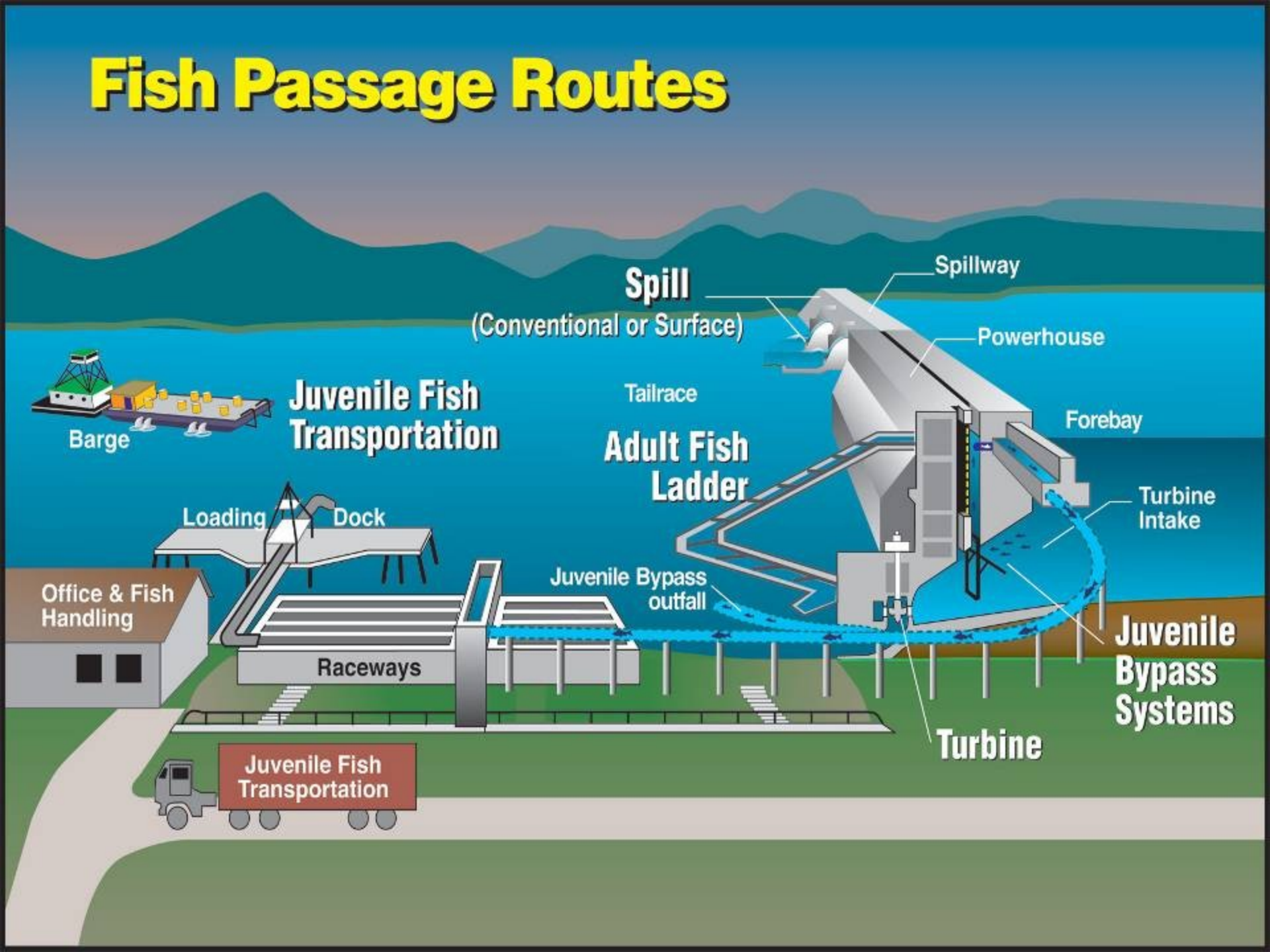
Fish Program Focus

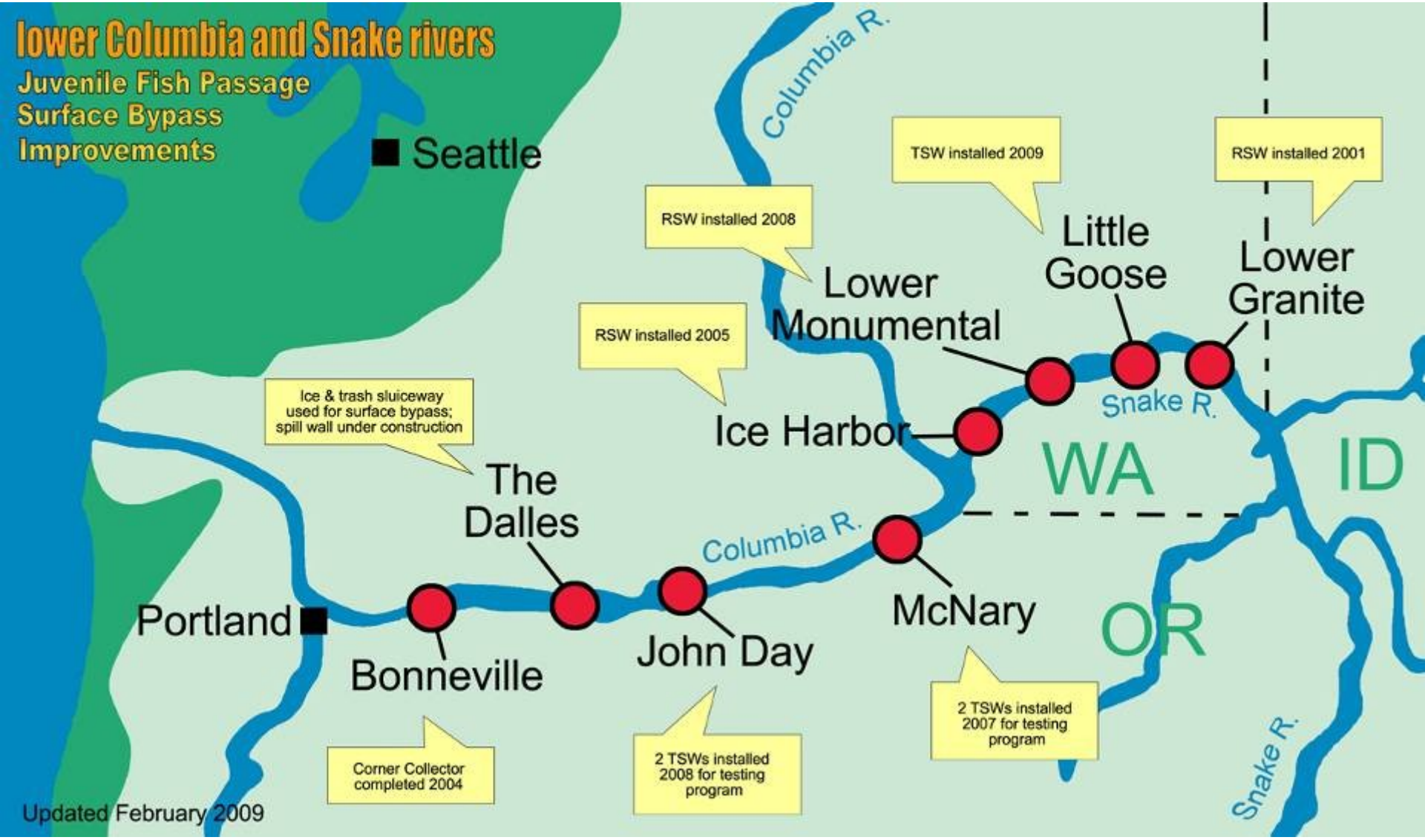
- Columbia River Basin
  - Anadromous Fish - 13 Listed stocks under the Endangered Species Act (ESA)
  - Resident Fish – 3 Listed stocks under ESA

2008-2018 FCRPS BiOp Coordination

- Operating within BiOp parameters to achieve BiOp Performance Standards
- As appropriate, independent science review (ISRP, ISAB)




Fish Passage Routes
Spill
(Conventional or Surface)
Spillway
Powerhouse
Barge
Juvenile Fish Transportation
Tailrace
Adult Fish Ladder
Forebay
Turbine Intake
Loading Dock
Juvenile Bypass outfall
Office & Fish Handling
Raceways
Juvenile Bypass Systems
Turbine
Juvenile Fish Transportation


lower Columbia and Snake rivers
Juvenile Fish Passage
Surface Bypass
Improvements
Seattle
Columbia R.
TSW installed 2009
RSW installed 2001
RSW installed 2008
Little Goose
Lower Granite
Lower Monumental
RSW installed 2005
Ice & trash sluiceway used for surface bypass; spill wall under construction
Ice Harbor
Snake R.
WA
ID
The Dalles
Columbia R.
Portland
Bonneville
John Day
McNary
OR
2 TSWs installed 2007 for testing program
Corner Collector completed 2004
2 TSWs installed 2008 for testing program
Snake R.
Updated February 2009